POSTCLOVSKIY, S. N.

GOTGEL'F, I.M. kand.tekhn.nauk; POSTOLOVSKIY, S.N., inzhener.

Choice of type of blowers for power stations. Energomashinostroenie (MIRA 10:10)
3 no.8:20-23 Ag '57.

(Blectric power planta--Ventilation)

GOTGEL'F, I.M., kand.tekhn.nauk; POSTOLOVSKIY, S.N., inzh.

Prospects for the development of blast-draft machines. Elek.

(MIRA 14:5)
sta. 31 no.12:20-24 D '60.

(Electric power plants-Equipment and supplies)

(Boilers)

114-8-6/16

Gotgel'f, T.M., Candidate of Technical Sciences, and AUTHOR: Postolovskiy, S.N., Engineer.

The selection of type of forced and induced draught equip-TITIE: ment for power installations. (Vybor tipa tyago-dut'yevykh mashin dlya energeticheskikh ustanovok)

PERIODICAL: "Energomashinostroyeniye" (Power Machinery Construction) 1957, Vol.3, No.8, pp. 20 - 23 (U.S.S.R.)

In evaluating the effectiveness of a fan, in addition to ABSTRACT: the maximum efficiency under optimum conditions, it is necessary to consider the shape of the relationship between the efficiency and the output. In particular, draught-producing equipment used in power stations has to work under varying conditions depending on the load on the boiler set. The operating efficiency of the equipment, which governs the power consumption in operation, depends to a considerable extent on the efficiency of regulation.

A brief analysis is made of the economy of regulation of fans and it is concluded that it is most economic to regulate them by altering the speed. In actual fact the hydraulic couplings or motors with rheostats in the rotor circuit that are necessary to achieve speed control are themselves rather inefficient and require considerable auxiliary equipment. An

Card 1/4

The selection of type of forced and induced draught equipment for power installations. (Cont.) 114-8-6/16

throttle but also economy in regulating properties. The influence of fan load factor on design is briefly considered.

At present all the draught-producing equipment manufactured for boiler sets with outputs up to 230 t/h employs the standard aerodynamic scheme 0.7 - 37 with forward bent blades. In connection with the development of larger boilers in 1955 the connection with the development of larger boilers in 1955 the connection with the development of larger boilers in 1955 the connection with the development of larger boilers in 1955 the connection with the Central Boiler Turbine Institute developed a new aerodynamic scheme 0.8 - 37 with forward bent blades oped a new aerodynamic scheme 0.8 - 37 with forward bent blades oped a new aerodynamic scheme 0.8 - 37 with forward bent blades oped a new aerodynamic scheme 0.8 - 37 with forward bent blades oped a new aerodynamic scheme 0.8 - 37 with forward bent blades oped a new aerodynamic scheme 0.8 - 37 with forward bent blades oped a new aerodynamic scheme 0.8 - 37 with forward bent blades oped a new aerodynamic scheme 0.8 - 37 with forward bent blades oped a new aerodynamic scheme 0.8 - 37 with forward bent blades oped a new aerodynamic scheme 0.8 - 37 with forward bent blades oped and the regulation at higher speeds than the standard machines. The open open at higher speeds than the standard machines are speed on the regulation by axial guide vanes combined with a two-speed motor.

The Institute has recently developed and tested on a model some modifications of the aerodynamic scheme 0.7 - 60 with backward bent blades. Fig. 4 gives the characteristics for this ward bent blades. Fig. 4 gives the characteristics for this scheme with 12 unprofiled blades. Questions of fan design scheme with 12 unprofiled blades are discussed. Analysis of including the best number of blades are discussed. Analysis of the merits of the different designs show that the 0.7 - 160 scheme is advantageous for boilers operating on constant load

Card 3/4

Card 4/4 Library of Congress

GOTORL'F, I.M., kandidat tekhnicheskikh nauk; POSTOLOVSKIY, S.H., inzhener.

Arrangement of a fan with axial guide vanes and an inlet box.

Blek.sta. 27 no.1:8-10 Ja '56.

(Fans, Mechanical)

LEVIN, Izrail' Moiseyevich; BOTKACHIK, Iosif Azar'yevich; RODDATIS, K.F., kand. tekhn. nauk; IVYANSKIY, S.I., kand. tekhn. nauk; BRAUDE, I.Ye., inzh.; GOTGEL'F, I.M., kand. tekhn. nauk, retsenzent; POSTOLOVSKIY, S.N., inzh., retsenzent; KOMAMOV, A.M., inzh.; LARIONOV, G.Ye., tekhn. red.

[Flue exhaust and ventilating fans for high capacity electric power plants] Dymososy i ventiliatory moshchnykh elektrostantsii. Moskva, Gos. energ. izd-vo, 1962. 183 p. (MIRA 15:4) (Electric power plants--Ventilation)

86476

s/104/60/000/006/003/004 E194/E484

26.2122

Postolovskiy, S.N., Engineer

AUTHOR:

النسب بدريو

An Investigation of the Aerodynamics of the Flow Parts

TITLE:

of Centrifugal Fans

PERIODICAL: Elektricheskiye Stantsii, 1960, No.6, pp.28-33

It is very difficult to make an experimental or theoretical study of the aerodynamics of the flow parts of centrifugal fans. The modelling method is the one mainly used to develop new types of fans but this method suffers from the difficulty that it is impossible to assess the distribution of losses between individual components of the flow part and so to be able to improve the aerodynamics of the system rationally. The flow in centrifugal fans is characterized by periodic changes in static pressure and Accordingly, vector speed, the reasons for which are discussed. Experimental work on fans flow in the fans is usually pulsating. has usually made use of the well-developed aerodynamic method of pneumometric measurements but in principle this method is only capable of measuring mean values of pressure with time, and so its use for the study of pulsating phenomena is limited. methods of measurement could well be developed if suitable Card 1/5

86476 \$/104/60/000/006/003/004 £194/£484

An Investigation of the Aerodynamics of the Flow Parts of Centrifugal Fans

Visual methods of observation occupy transducers were available. The luminous a special place in experimental aerodynamics. particle method is used to study flow with a high degree of turbulence. It is of special interest to develop this method to The essence of the give quantitative as well as qualitative data. method is that insoluble particles are included in the flow which is then illuminated with a narrow beam of light pulsating at a Particles illuminated by the beam of The speed of predetermined frequency. light shine and their position may be photographed. the particles may be calculated from the distance between successive appearances in pulsating light. An advantage of the method is that it is possible to obtain a picture of the speed of flow at any It is much given instant over the entire section of the flow part. easier to use the method of visual observation if the air is replaced by water. In tests on centrifugal fans, this is usually quite permissible because compressibility of the air may be The governing criterion is that the Reynolds number neglected。 Card 2/5

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001342630002-0"

86476

s/104/60/000/006/003/004 E194/E484

An Investigation of the Aerodynamics of the Flow Parts of Centrifugal Fans

must be maintained constant, which involves reducing the speed of the runner. For example, in a particular case, if the runner speed is 1000 to 3000 rpm in air, the speed with water should be This slowing down of the speed makes it easier to On the basis of these considerations, the Moscow Department of the Central Boiler Turbine Institute designed and made a special rig for investigating the it is a closed circuit arrangement in which appropriate parts are made of transparent plastic material to permit of illumination and Fluorescent tubes were used as light sources and gave light pulsating at a frequency of 100 cycles/sec. instrumentation and experimental procedure are described. photography. make the flow visible, nitrogen bubbles are introduced into it, this has the disadvantage that nitrogen and water are of different specific gravity and so the centrifugal effect might distort the results somewhat, however, this is found to be unimportant provided Card 3/5

in the form

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An Investigation of the Aerodynamics of the Flow Parts of Centrifugal Fans

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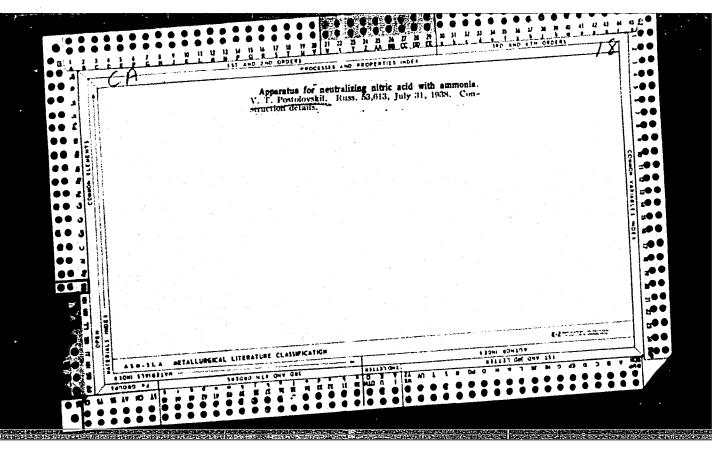
of dotted lines consisting of four or five streaks, the exposure being 1/25 sec with 100 flashes per second. The distance between the neighbouring light spots corresponds to the path traversed by the bubbles in 1/100 sec and, accordingly, the speed of flow may be calculated. The photographs show the presence of swirling in the inter-blade channels and also the zone of active motion of the flow where, due to the high speed, the distance between the light spots of each trajectory is greater and the brightness is reduced. It is shown that with blades that bend forward or are radial the channels are not well filled with active flow, the bent back blades are much better in this respect. This kind of observation could be used to improve blade design. A number of other questions arising during the development of new and aerodynamically improved blading could be studied in this way. The photographs given are only an illustration of the possibilities of the method which could be extended to many other kinds of investigation provided that the experiments are appropriately designed in each particular case. There are 3 figures. Card 5/5

ZORIN, L.F., gornyy inzh.; POSTOLOVSKIY, V.I., gornyy inzh.

Advanced technology, mechanization, and automatization in the Lvov-Volyn' Basin mines. Ugol' Ukr. 5 no.9:17-19 S '61.

(MIRA 14:9)

(Lvov-Volyn'Basin--Coal mines and mining)



POSTOLOVSKIY, Ye.Z.

Standardization of plastic machine-tool parts. Stan. i instr. 36 no.11:28-30 N '65. (MIRA 18:31)

POSTOLSKI, J.

Preservation of sugar beets in a coating of ice. p. 64.

GAZETA CUKROWNICZA. (Stowarzyszenia Naukowo-Techniczne Inzynierow i Technikow Przemyslu Rolnego i Spozywczego i Centralny Zarzad Przemyslu Cukrowniczego) Warszawa, Poland. Vol. 61, no. 2, February 1959

Monthly List of East European Accession (EEAI) LC, Vol. 8, no. 7, July 1959

Uncl.

POIAND / Chemical Technology, Chemical Products and Their Application. Food Industry.

H-28

Abs Jour : Ref Zhur - Khimiya, No 5, 1959, No. 17391

Author

: Postolski, J.

Inst

: Not given

Title

: Refrigerated Storage of Dry Milk

Orig Pub

: Przegl. mleczarski, 1957, 5, No 10, 18-19

Abstract

: For the determination of the effect of packing on storageability of dry milk (DM) in paper and metal foil packages, experiments were conducted at 0.50 and at relative humidity of 74-80%. In the course of the first 2 months DM packed in paper retained their qualities better than DM packed in metal foil. The latter acquired a slight oily and metallic taste which were not intensified, though, upon prolonged storage. DM in paper packages deteriorated rapidly after 4 months storage and

Card 1/2

H-113

POSTOLSKI, J.

POSTOISKI, J. Freezing and preservation of tomatoes. p. 467 Vol. 10 no. 11, Nov. 1956 PRZEMYSL SPOZWCZY, Warszawa Poland

SOURCE: East European Accessions List (EEAL) Vol. 6 No. 4 April 1957

POSTOLSKI, J.

POSTOLSKI, J. Glazing of frozen fish is an important factor in the prolongation of its preservation. p. 12. Vol. 7, no. 9, Sept. 1955, COSPODARKA RYBNA. Warszawa, Poland.

SOURCE: Fast European Accessions List (EEAL) Vol. 6, No. 4--April 1957

POSTOLSKI, J.

FOSTOLSKI, J. The influence of the postslaughter changes and of the cooling process on the expansion and the amount of juice in unfrozen ment tissue. p. 12

Vol. 8, no. 10, Cet. 1956 COCHEDARKA MIESNA FOLITICAL SCIENCE Warszawa, Poland

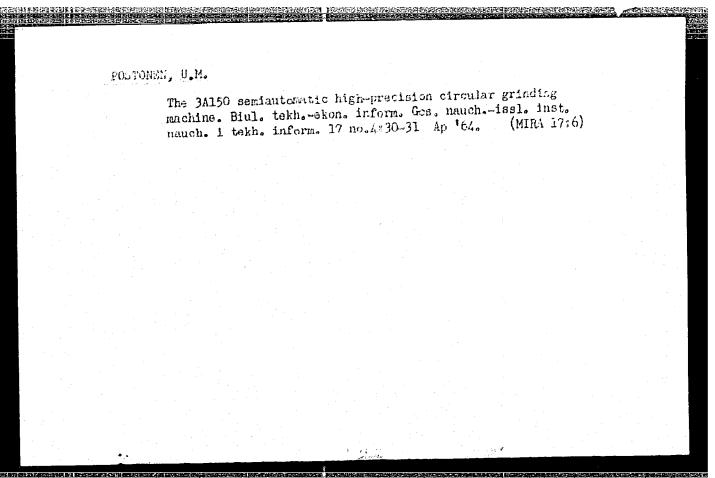
So: East European Accession Vol. 4, No. 3, March 1957

POSTILMI, J.

"Natural Shrinkage in Mast During Freezing and Cold Storage.", p. 331, (COSFODERA MIRSHA, Vol. 6, No. 11, Nov. 1954, Marczawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

	Country : FOLAND Category : Chemical Tachnology. Food Industry POSTALS   1. 1. 1959 Po 51494 Abs. Jour : Pof Zhur-Khimiya No 14, 1959 Po 51494	1-1:48	
***	Institute: Freezing and Storage of Fruits and Vegetable: Freezing and Storage of Fruits and Vegetable	es	
	Orig Pub. : Przetwor. omoc warz. i koncentr., 1958, 3	i	
	Abstract: Presented are data that characterize optimu conditions of freezing for various fruits a vegetables as well as their physical and chemical function of conditions and the durtion of cold storage Z. Fabinsliy	inu	
	Card: 1/1		
	H-16/		



MURZIN, G.A.; POSTONOGOB, A.A.; KRALIN, V.A.; BESKLUBOV, V.P.; PLEKHANOV, G.V.

Sevice for charging deep blast holes. Gor. zhur. no.1:59-62 Ja '64.

(MIRA 17:3)

1. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut gornogo i obogatitel'nogo mashinostroyeniya (for Murzin, Postonogov, Kralin, Basklubov). 2. Vysokogorskoye rudoupravleniye (for Plekhanov).

POSTONOGOV, Yu.A., inzh.

Rolling of angle iron in a system of open passes. Stal' 25 no.8:738-739 Ag '65. (MIRA 18:8)

1. Cherepovetskiy metallurgicheskiy zavod.

KUKURECHENKO, I.S.; SUKHACHEV, N.G.; SHOKIN, I.N.; KRASHENINNIKOV, S.A.; PODOSINKIN, P.A.; POSTORONKO, A.I.; TROYNIK, G.G.

Decarbonization of sodium bicarbonate in a semi-industrial column with submerged packing. Trudy MKHTI no.40:186-190 (MIRA 18:12)

SAVITSKAYA, M.M. [Savyts'ka, M.M.]; KHOLODOVA, Yu.D.; POSTORONKO, A.I.; GRIZODUB, A.P. [Hryzodub, A.P.]

New coagulating agents for the acceleration of brine purification in the production of sodn. Khim. prom. [Ukr.] no.3:32-35 (MIRA 17:8)

1. Ukrainskiy nauchno-issledovateliskiy institut fiziologii rasteniy (for Savitskaya, Kholodova). 2. Slavyanskim sodovyy kombinat (for Postoronko, Grizodub).

PODOSYNKIN, P.A.; POSTORONKO, A.I.; GRIZODUB, A.P. [Hryzodub, A.P.];
KAL'NA, Z.P.; L'APINA, A.G. [Liapina, A.H.]

Purification of waste waters from the washing of the electric filters of lime kilns. Khim. prom. [Ukr.] no.3:82-84. Jl-S '63. (MIRA 17:8)

1. Slavyanskiy sodovyy kombinat.

Postotskiy,	I.B.		8 6 8	<b>ન</b> •	n i de la companya de
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POSTOTSKIY, V. and Rufanov, I. Q.

Mar and the Doctor (Voyna i vrach)", 19h0 Khirurgiya No 2, pp 65-68, Feb 195h

POSTOVALOV, V., inzhener po ratsionalizatsii

We do not have such enterprises. Izobr.i rats. no.12:9 D '60.

(MTDA 13:12)

1. Arkhangel'skiy sovnarkhoz.

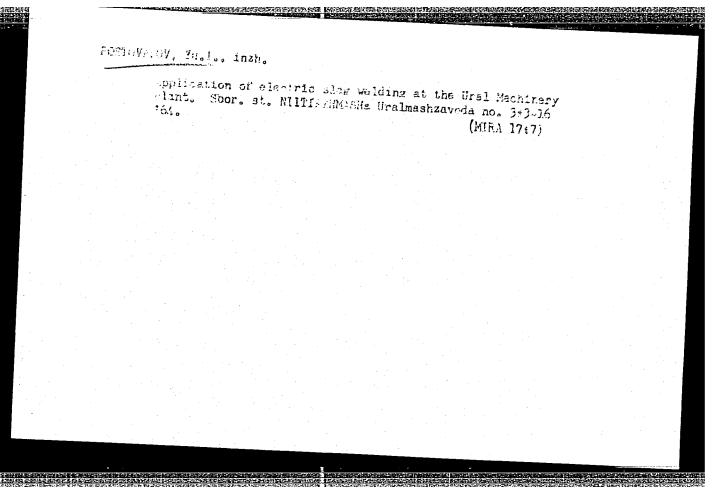
(Archangel Province—Technológical innovations)

31173-66 EWT(1)/EWT(m)/EWA(d)/EWP(t) ACC NR: AP6006826 IJP(c) JD) SOURCE CODE: UR/0181/66/008/002/0437/0442 AUTHOR: Irkhin, Yu. P.; Postovalov, V. G. ORG: Institute of Physics of Metals AN SSSR, Sverdlovsk (Institut fiziki metallov TITLE: Types of spin-orbital interaction and the spontaneous Hall effect at low SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 437-442 TOPIC TAGS: Hall effect, spin wave theory, spin orbit coupling, low temperature ABSTRACT: The authors use the spin wave approximation for calculating the spontaneous Hall effect due to the natural spin orbital interaction between magnetic electrons in ferromagnetic metals. The corresponding component of the spontaneous Hail coefficient is proportional to the cube of the temperature. This mechanism is compared with that of classical interaction between the orbital moment of the conduction electrons and the spins of magnetic electrons to explain the experimentally Card 1/2

VOLOSHKEVICH, G.Z., doktor tekhn. nauk; SUSHCHUK- SLY SARENKO, I.I., inzh; LYCHKO, I.I., inzh.; POSTOVALOV, Yu.I., inzh.

Electric slag welding with a self-melting tip. Avtom. svar. 17 no.11:82-85 N \*64 (MIRA 18:1)

1. Institut elektrosvarki imeni Ye.O. P. tona AN UkrSSR (for Voloshkevich, Sushchuk- Slyusarenko, Lychko). 2. Ural'skiy zavod tyazhelogo mashinostroyeniya imeni Sergo Ordzhonikidze (for Postovalov).



SUSHCHUK-SLYUSARENKO, I.I.; POSTOVALOV, Yu.I.

Manufacture of welded cylinders for 7,000-ton hydraulic presses. Avtom. sver. 14 no.8:62-64 Ag '61. (MIRA 14:9)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni Ye.O.Patona AN USSR (for Suehchuk-Slyusarenko). 2. Ordenov Lenina, Krasnogo Znameni i Trudovogo Krasnogo Znami zavod Uralmash (for Postovalov).

(Hydraulic presses -- Welding)

s/125/61/000/008/006/014 DO40/D113

Sushchuk-Slyusarenko, I.I., and Postovalov, Yu.I.

The manufacture of a welded cylinder for a 7000-ton hydraulic AUTHORS:

TITLE:

Avtomaticheskaya svarka, no. 8, 1961, 62-64 TEXT: On account of the frequent breakdown and consequent pre-schedule withdrawal of the cylinder of a 7000-ton press installed at the Nizhne-PERIODICAL:

Tagil'skiy metallurgicheskiy kombinat (Nizhniy Tagil Metallurgical Combine), efforts were made to improve the system used for preparing these cylinders. In order to increase the life of the cylinders, it was decided to join the shell to the insert bottom by electroslag welding and to use 35 steel for the preparation of both parts. Previously employed 35HM(35NM) steel was found to be insufficient for this tion of the welding equipment. In order to recover defends of the welding equipment. tion of the welding equipment; in order to prevent deformation of the copper tube through heating and to guarantee the accurate positioning of the electrode in the gap during welding, the copper current-conducting part of the troue in the gap during weiding, the copper current-conducting part of the tip of the welding torch was fitted with steel strips. A water-cooled slide

card 1/3

S/125/61/000/008/006/014 D040/D113

The manufacture of a welded cylinder ...

bar made of copper was used to hold the slag and metal baths in position. Welding was started in a pocket which was enlarged in accordance with the welding up of the seam. This pocket helped to reduce metal wastage, and to cut down on time used at the beginning of the weld. In the welding process, particular attention was paid to keeping the slag bath at a certain depth, which was considerably reduced owing to the reduction in the gap due to metal contraction. After welding 2.5-3 m of the weld, the slag bath was removed for the withdrawal of iron oxides. The welding of the circular weld was carried out with the aid of an CB -10 T2 (Sv-10G2) electrode wire under an AH-8 (AN-8) flux. The following system was used: voltage=46-48 v; feed rate of electrode wire - 195-200 m/hr; number of electrodes -3; slag bath depth-45-50 mm; speed of transverse oscillations of the electrode - 39 m/hr; time in which the electrodes were held near the rims - 5 sec; duration of the entire welding process - 23 hrs. After a year's operation, a crack appeared in the welded cylinder. It was decided to have the cylinder repaired at the Ural'skiy zavod tyazhelogo mashinostroyeniya (Ural Heavy Machinery Plant) and then put back into operation. The repair work on the cylinder helped economize more than 50,000 rubles and considerably reduced the idle time of the press.

Card 2/3

S/125/61/000/008/006/014 DO40/D113

The manufacture of a welded cylinder ...

There are 3 figures.

ASSOCIATION: Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im.

Ye.O. Patona AN USSR (Electric Welding Institute "Order of the Red Banner of Labor" im. Ye.O. Patona AS UkrSSR) (Sushchuk-Slyusarenko, I.I.); Ordenov Lenina, Krasnogo Znameni i Trudovogo Krasnogo Znameni zavod Uralmash ("Orders of Lenin, of

the Red Banner and the Red Banner of Labor", Uralmash Plant)

SUBMITTED:

January 31, 1961

Card 3/3

CIA-RDP86-00513R001342630002-0" APPROVED FOR RELEASE: 07/13/2001

PADALKA, B.Ya., prof.; POSTOVIT, V.A., dotsent

Diagnosis and treatment of tetanus. Vrach.delo no.12:105(MIRA 15:12)
110 D '62.

1. Kafedra infektsionnykh bolezney (zav. - prof. B.Ya.Padalka)
(TETANUS) (SERUM THERAPT)

(TETANUS) (SERUM THERAPT)

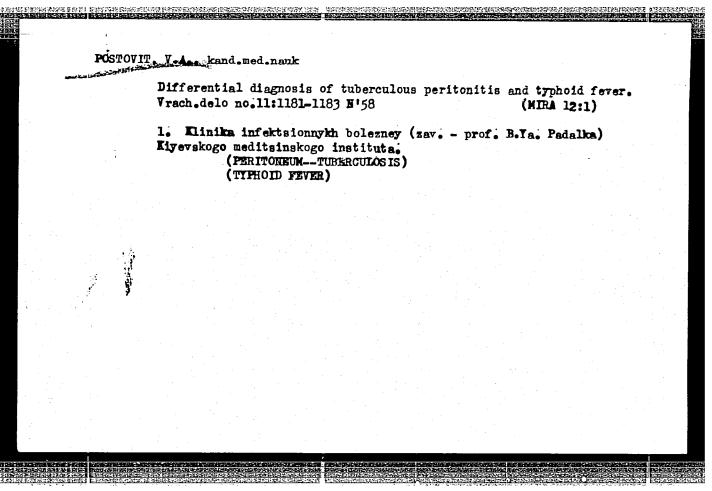
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POSTOVIT, V.A., dotsent; SHEMONAYEV, V.I.

Clinical aspect and diagnosis of trichinosis. Vrach, delo no.32
97-100 Mr º63.

1. Kafedra infektsionnykh bolezney (zav. - prof. B.Ya., Padalka)
Kiyevskogo meditsinskogo instituta.

(TRICHINA AND TRICHINOSIS)



POSTOVIT, V.A.

Blood complement in erysipelas. Medych.zhur.24 no.5:81-84 '54.

(MLRA 8:10)

1. Kiivskiy medichniy institut, klinika infektsionnykh khvorob.

(ENTSIPELAS, immunology,

complement)

(COMPLEMENT,

in erysipelas)

POSTOVIT, V.A. (Kiyev, ul. Kreshchatik, d.15, kv. 138)

Prognostic role of high permesbility of the blood vessels in erysipelas. Nov.khir.srkh. no.2:71-72 Mr-Ap '57. (MiRA 10:8)

1. Mafedra infektsionnykh bolesney (sav. - prof. B.Ya. Padalka)

Kiyevskogo meditsinskogo instituts
(PERMEABILITY) (ERYSIPELAS)

POSTOVIT, V. A. Cand Med Sci -- (diss) "On the permeability of blood capillaries of patients the herysipelas." Kiev, 1957. 16 pp (Kiev Order of Labor Red Banner Med Inst im Academician A. A. Bogomolets), 200 copies (KL, 3-58, 99)

\_56-

POSTOVI	Capillary						(MLRAD	10:7)	•
	l. Kafedra Kiyevskogo (ER)	infektsion meditsinske (SIPMLAS)	nykh bole ogo insti (CAPILL	zney (zav. tute. ARIES)	pro	f. B.Ya	Pada 1ka	)	

Case of toxic encephalopathy caused by helminthic infestation.
Ped., akush. i gin. 23 no.6:28-29 '61. (MIRA 15:4)
(BRAIN—DISEASES) (WORMS, INTESTINAL AND PARASITIC)

UGRYUMOV, Boris Leont'yevich, doktor med. nauk; FOSTOVIT, V.A., red.;
GITSHTEY!, A.D., tekhn. red.

[Clinical aspects of hemorrhagic fevers] Klinika gemorragicheskikh likhoradok. Kiev, Gos. med. izd-vo USSR, 1961. 98 p.
(MIRA 15:3)

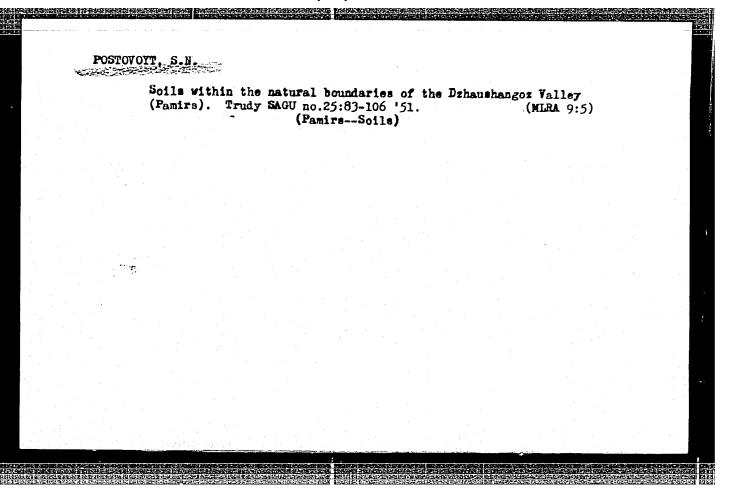
(HEMORRHAGIC FEVER)

POSTOVIT, V.A.; KAZATSKAYA, G.G.

Clinical aspects and diagnosis of paratyphoid C. Vrach.delo no.10: 1093 0 '59. (MIRA 13:2)

1. Kafedra infektsionnykh bolezney (zaveduyushchiy - prof. B.Ya. Padalka) Kiyevskogo meditsinskogo instituta.

(PARATYPHOID FAVER)



22(1)

SOV/27-59-4-17/28

AUTHOR:

Postovoytov, V.

TITLE:

Organizational Points in Conducting Propaganda by Lecture

PERIODICAL:

Professional'no-tekhnicheskoye obrazovaniye, 1959, Nr 4,

pp 24-25 (USSR)

ABSTRACT:

A certain system of preparing lectures and reports has been developed in many Labor Reserve schools of the Rostov Oblast'. It eliminates the possibility of wrecking a lecture for organizational reasons and has justified itself. In most schools propaganda by lecturing is conducted on a long-term plan, providing that every student should hear 2 to 3 lectures monthly. The plan is coordinated with the respective section of the Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy (Society for the Dissemination of Political and Scientific Knowledge), and the lecturers are chosen by common consent. The Rostov Oblast' and Municipal Sections of the above-mentioned society have a group of lecturers at their disposal who know the specific character of the Labor Reserve schools. The following are active

Card 1/2

PREATURE ENGINEERING ENGINEERI

SOV/27-59-4-17/28

Organizational Points in Conducting Propaganda by Lecture

members of the society who deliver lecturers systematically: I.G. Tatarchenko and V.P. Nartov, Deputy Chiefs of the Oblastnoye upravleniye trudovykh rezervov (Oblast' Administration of Labor Reserves); A.K. Martirosov, Chief of the Oblast! Methodological Workshop; I.A. Kazachenko, Director of Tekhnicheskoye uchilishche (Technical School) Nr 14, and others. The author mentions several themes on which lectures are delivered, and furnishes some details on the practice of lecturing at various schools. In this connection, reference is made to the Stroitel'noye uchilishche (Construction School) Nr 9 and the Remeslennoye uchilishche Nr 2 (Trade School Nr 2), Taganrog, and Sergey Vasil yevich Shcherbakov, Deputy Director of the former, Other schools mentioned are the Technical School Nr 9 Trade Schools Nr 1 and 11, Zheleznodorozhnoye uchilishche (Railroad School) Nr 2 and its Deputy-Director V.F. Melent yev, and the Tekhnicheskoye uchilishche khimikoy (Technical School of Chemists) Nr 1. Kamensk.

Card 2/2

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#### CIA-RDP86-00513R001342630002-0 "APPROVED FOR RELEASE: 07/13/2001

22: (1)

SOV/27-59-2-15/30

AUTHOR:

Postovoytov

TITLE:

Educating Atheists (Vospityvat' ateistov)

PERIODICAL:

Professional no-tekhnicheskoye obrazovaniye, 1959, Nr 2,

pp 23 - 24 (USSR)

ABSTRACT:

The author urges instructors in Labor Reserve Schools to pay much more attention to the scientific-atheistic propaganda as a basic Communist form of educating young people, and inculcating them with materialistic ideology. He mentions a few instances where religious beliefs persist among students of the Zheleznodorozhnoye uchilishche Nr 3 (Railroad School Nr 3) and the Stroitel'noye uchilishche Nr 2 (Construction School Nr 2) of Novorossiysk (Krasnodar Kray). He indicates ways of overcoming religious prejudices, and preventing students from taking time off, under various pretexts, to celebrate important religious holidays. The students should be studied under various aspects: while at work and at rest, the instructor should know their sentiments and thoughts, with whom they are on friendly terms, the places they visit and how they spend their time;

Card 1/2

Educating Atheists

SOV/27-59-2-15/30

who their parents are, their views, and attitudes toward their children. The instructor should not forget to exert individual influence on the student.

Card 2/2

AUTHOR: Postovoytov, V.

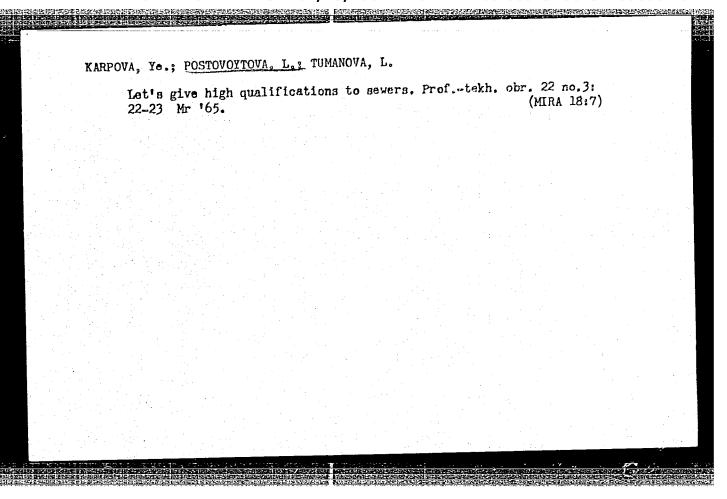
TITLE: Masors Evening (Vecher kamenshchika)

PERIODICAL: Professional'no-tekhnicheskoye obrazovaniye, 1958, Nr 10, pp 32-33 (USSR)

ABSTRACT: The club of the Building School Nr 1 in Frunze organized an evening of recreation devoted to the mason profession.

1. Construction 2. Personnel—Organization

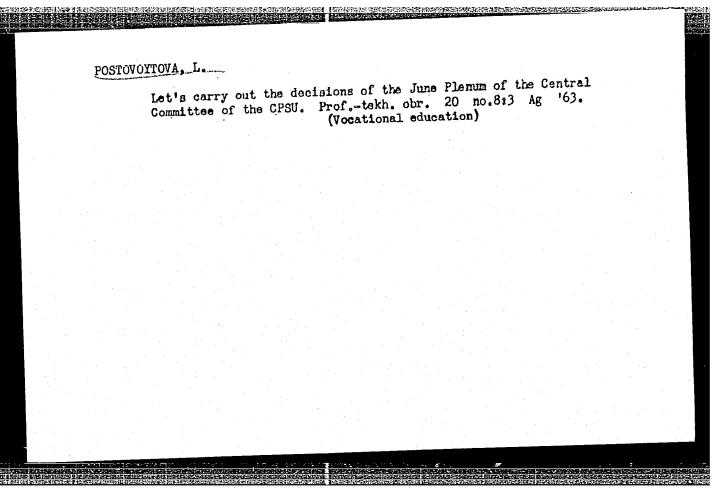
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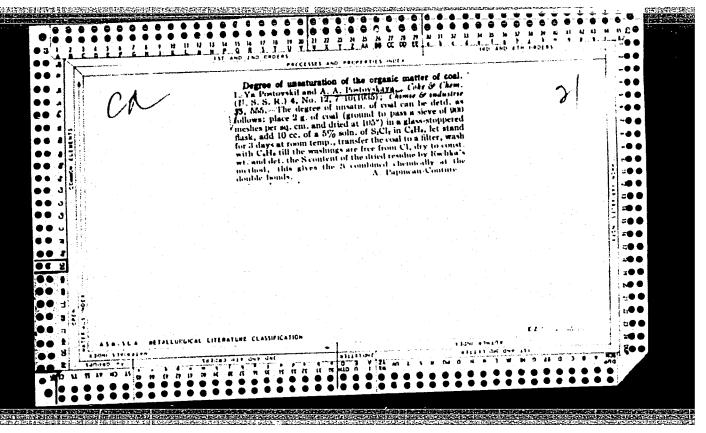


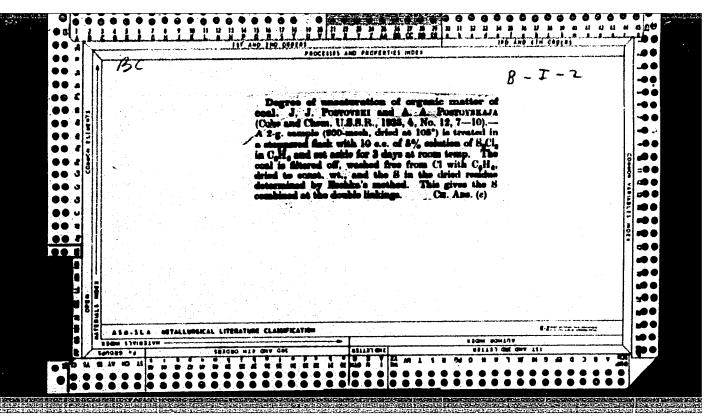
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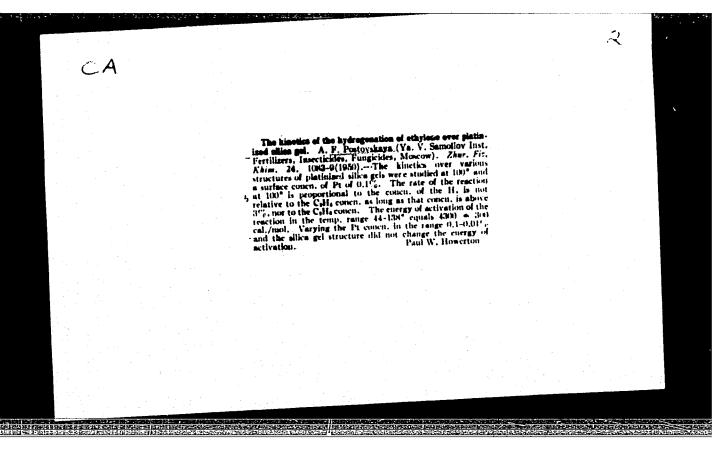
Toward active participation of students. Prof.-tekh. obr. 20 no.9:19-20 S 163. (MIRA 16:11)

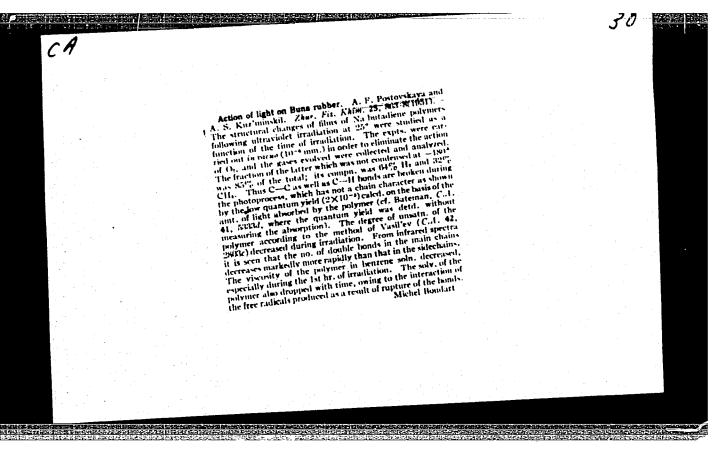
1. Zaveduyushchaya laboratoriyey professiy legkoy promyshlennosti TSentral'nogo uchebno-metodicheskogo kabineta, Moskva (for Postovoytova).

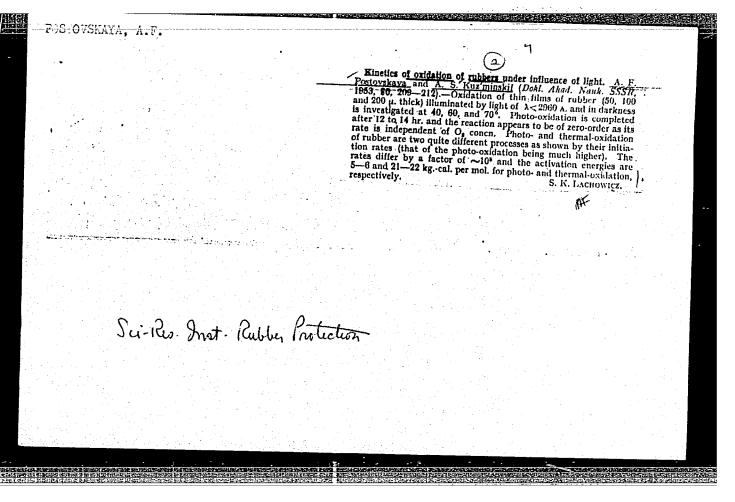












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1079. Behaviour of cross-links forming three dimensional network in vulcanisate under the action of light. A. F. Postoyekava and A. S. Ikuzintakin. Doklady Akad Nauk S.R.S. 1950, 108, No. 5, 886-9; Chem. Abr., 1956, 59, 14261. Three types of sodium butadiene rubited differing in their cross-bonding were investigated: (a) a vulcanisation product with polysulphids bonds (-C-S-C-), (b) with monosulphilds bonds (-C-S-C-), and (o) a thornally vulcanised product with "C-C bonds. The vulcanisation conditions were selected to produce equal values of the equilibrium modulus (a characterisation of the lattice density, i.e. the number of cross-bonds formed). The photooxidation was studied. The thermal stability of the different vulcanisates was determined by the bond energies,	2 imay	
which were 32.7 kcal/mole for (c), 54.4 kcal/mole for (b) and 27.5 kcal/mole for (c), 54.4 kcal/mole for (b) and 27.5 kcal/mole for (c), 54.4 kcal/mole for (d). The light effects do not follow the same rule, and the photocuergies may cause breakdown of the strongest bonds. Thus (b) was the most light-resistant, and (c) the least.  Sci-Ru - Ant - Rublu, Actualy.		

20-114-3-37/60

AUTHORS:

Postovskaya, A. F., Salimov, M. A., Kuz'minskiy, A.S.

TITLE:

On the Changes in the Degree of Sulphidity of Sulphur Structures in Vulcanized Products When Exposed to Light (Obizmenenii stereni sul'fidnosti sernykh struktur v vulkanizatakh

pri svetovom vozdeystvii)

PERIODICAL:

Doklady Akademii Nauk SSSR,1957,Vol.114,Nr 3,pp.586-589(USSR)

ABSTRACT:

The authors of the paper under review have demonstrated in an earlier paper that sulphur vulcanized products of sodium butadiene rubber (polysulphide and thiuram products) differing from each other by the structure of their transverse.

bonds are of different stability to light. The polysulphide vulcanized product is more stable. If it is exposed to ultraviolet light this exposure is accompanied by the decomposition of the sulphur compounds and by the formation of free sulphur which, unlike elemental sulphur, does not take part in the processes of photovulcanization, i.e. remains "inactive". It was not determined of what kind the structure of this inactive sulphur is, neither was the question clarified just how the degree of sulphidity of sulphur in these vulcanized products

Card 1/4

20-114-3-37/60

On the Changes in the Degree of Sulphidity of Sulphur Structures in Vulcanized Products When Exposed to Light

changes when exposed to light. Therefore it is not possible to give an answer to the very important question of why one vulcanized product should be more resistant to light than another. The paper under review is devoted to the investigation of this question. Research as to the type of sulphur compounds is hindered by different obstacles. For instance, it is possible that polysulphide structures had been overlooked in the thiuram vulcanized product. Because of several reasons, ultraviolet spectroscopy was applied to the investigation of the change in the degree of sulphidity of sulphur structures of both kinds of vulcanized products when exposed to ultraviolet light. The results of this investigation are compiled in tables Nr 1 - 3 in the paper under review. Figure Nr 1 shows that, if compared to pure rubber, the absorption in polysulphide vulcanized rubber is intensified in the interval of 2200 - 5400 A. This can be explained by the existence of sulphur structures of different degrees of sulphidity. If polysulphide vulcanized rubber is exposed to light, the intensity of the absorption is reduced. This is explained by the decomposition of polysulphide bonds,

Card 2/4

20-114-3-37/60

On the Changes in the Degree of Sulphidity of Sulphur Structures in Vulcanized Products When Exposed to Light

with the sulphide of higher order having a higher stability to light. Figure Nr 2 shows for thiuram vulcanized rubber a maximum of absorption in the interval between 2500 and 2600 A corresponding to the presence of di- and trisulphides. Higher sulphides are present in smaller quantities. Exposure to thiuran vulcanized rubber is accompanied by the decomposition mainly of the hexa-sulphides and of the still higher sulphides. Comparing figure Nr 1 and Nr 2, as contained in the paper under review, it is seen that thiuram vulcanized rubber, in spite of the fact that its contents of bound sulphur are only 1/4 of the contents in polysulphide vulcanized rubber, shows more intense absorption in the ultraviolet and in the visible range. This is probably caused by the different distribution of the bound sulphur upon the different sulphur structure. Analysis of the material obtained from these experiments leads to the conclusion that the higher stability to light of the polysulphide vulcanized rubber as compared to the vulcanized rubber must be explained by the difference in the absorption in the ultraviolet range

Card 3/4

20-114-3-37/60

On the Change in the Degree of Sulphidity of Sulphur Structures in Vulcanized Products When Exposed to Light

> and by the relevant sulphur structures. There are 3 figures and 12 references, 4 of which are Soviet.

ASSOCIATION: Scientific Research Institute of Rubber Industry

(Nachno-issledovatel'skiy institut rezinovoy promyshlennosti)

Moscow State University imeni M. V. Lomonosov

(Moskovskiy gosudarstvennyy universitet fm. M. V. Lomonosova)

November 22, 1956, by P. A. Rebinder, Member of the Academy PRESENTED:

SUBMITTED: November 22, 1956

AVAILABLE: Library of Congress

Card 4/4

SOV/81-59-9-33456

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 9, p 563 (USSR)

AUTHORS:

Zuyev, Yu.S., Kuz'minskiy, A.S., Postovskaya, A.F.

TITLE:

Some Peculiarities of the Light Aging of Rubbers and Vulcanizates

PERIODICAL:

Tr. N.-1. in-ta rezin. prom-sti, 1956, Nr 3, pp 102 - 113

ABSTRACT:

The action of light on rubber differs from the action of a high temperature. In the action of light on vulcanizates the role of the optical properties of ingredients is essential, it is necessary therefore to separate the optical and chemical action of the age resistors for establishing an interconnection between the chemical structure of these substances and their chemical light-protective action. Some age resistors and dyestuffs cause a photosensitization in the vulcanizates. The suppression of the sensitizing action and the manifestation of the efficiency of the sensitizers can be obtained using vigorously light-absorbing ingredients.

Card 1/1

V. Glagolev

ZUYEV, Yu.S.; POSTOVSKAYA, A.F.

Effect of tetramethyl thiuram disulfide on the ozone and photoczone aging of rubber. Kauch. i rez. 24 no.5:18-20 My '65. (MIRA 18:9)

1. Nauchno-issledovatel skiy rezinovoy promyshlennosti.

ACCESSION HR: AP5013734 UR/0138/65/000/005/0018/0020 678.063:678.044.46:678.019.36 26 AUTHOR: Zuyev, Yu. S.; Postovskaya, A. F. TITLE: Effect of tetramethylthiuram disulfide on light-and-ozone - and ozone-induced aging of vulcanizates SOURCE: Kauchuk i rezina, no. 5, 1965, 18-20 TOPIC TAGS: light induced cracking, ozone induced cracking, sulfur vulcanizate, tetramethylthiurem disulfide vulcanizate ABSTRACT: A comparative study has been made of the resistance to light-and-ozoneand ozone-induced cracking of rubbers vulcanized with tetramethylthiuram disulfide (thiuram) or with sulfur. The study was undertaken on the assumption that oxidation processes play a considerable role in ozone-induced and, particularly, in lightand-ozone-induced cracking, and that inhibition of these processes by an antioxident should prevent cracking. The experiments were conducted with natural psodium butadiene (SKB), butadiene-styrene (SKS-30) and nitrile (SKN-40) rubbers both unfilled and reinforced with carbon black v Resistance to aging was estimated from the time to the appearance of cracks and to failure of stressed specimens subject = . Card 1/2

L 52718-65 ACCESSION NR: AP5013734

to accelerated aging in a light-and-ozone apparatus developed by Zuyev (ozone concentration, 0.001% by volume; elongation, 15%). The effect of light was determined from changes in the stiffness of nondeformed specimens in the illumination process. The results of the study, given in tabular form, indicate that the resistence of vulcanizates to cracking increases in the presence of thiuram (SKS-30 and SKN-40, by a factor of 4 to 15). Although the mechanism of the inhibition of ozone cracking by antioxidants remains unclear, the results of the study appear to confirm the role of oxidation processes in cracking of vulcanizates. Orig. art. has: 3 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Scientific Research Institute of the Rubber Industry)

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284 Card 2/2

ZUYEV, Yu.S.; POSTOVSKAYA, A.F.; PODCHUFAROVA, G.M.

Role of light in the light and ozone aging of rubber.

Kauch. i rez. 22 no.7:14-17 J1 '63.

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti.

(Rubber-Testing)

L 14418-63

ACCESSION NR: AP3004253

modulus of undeformed vulcanizates. Resistance to ozone cracking and LOC was determined from data on the time elapsed at the onset of cracks and the failure of vulcanizates at 15% elongation. The results of the study, presented in the form of tables, indicate that the activating effect of light on LOC is due both to photooxidation and to an increase in the mobility of degraded rubber molecules. The resistance of vulcanizates to LOC can be improved by retarding oxidation with antioxidants, antiozonants, and "anti-light-aging agents," by suppressing the photosensitizing effect of ingredients, and by checking the adverse effect of strong light absorbers with such substances as nickel diethyldithiocarbamate. Orig. art. has: 5 tables.

ASSOCIATION: Neuchno-issledovatel'skiy institut rezinovoy promy\*shlennosti: (Scientific Research Institute of the Rubber Industry)

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DATE ACQ: 21Aug63

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NO REF SOV: 009

OTHER: 001

Card 2/2

8/189/60/000/003/003/003 B016/B056

AUTHORS:

Postovskaya, A. F., Salimov, M. A.

TITLE:

Investigation of Processes Developing in Vulcanized

Products Under the Action of Nitric Acid

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya 2, khimiya, 1960,

No. 3, pp. 24 - 30

TEXT: In technical literature no analyses are given of the functional groups of transformation products of vulcanizates under the action of nitric acid with which they often come into contact in practice. However, HNO3 causes considerable changes in the polymer structure, and this impairs the mechanical properties of the vulcanizates. Knowledge of the aforementioned transformation products facilitates the determination of the processes mentioned in the title. Moreover, they explain the mechanism of these processes. The authors investigated the effect produced by HNO3 on vulcanizates of different structure, viz., I) upon the thermovulcanizate of sodium-butadiene rubber (CK5,SKB); II) upon

Card 1/3

Investigation of Processes Developing in S/189/60/000/003/003/003 Vulcanized Products Under the Action of B016/B056 Nitric Acid

sodium-butadiene-sulfur vulcanizate (SKB); III) upon the thermovulcanizate of divinyl-styrene rubber (CNC-30, SKS-30); IV) upon the X-ray vulcanizate of III. The vulcanizing conditions were selected so that the vulcanizates I) and IV) had the same equilibrium modules. The authors acted upon 30 µ thick vulcanizate films by means of 25% and 50% HNO, at / 25 and 80°C. They investigated the aforementioned transformations by the physico-chemical method and by means of infrared spectroscopy. In the latter case the NKC-2 (IKS-2) spectrometer was used. Figs. 1-5 show the results obtained. On the basis of the latter, the authors arrived at the following conclusions: 1) In vulcanizates, the following main processes occur under the action of HNO3: nitration and oxidation. Both processes are highly intensified by an increase of the acid concentration and temperature. As a consequence of these processes, the vulcanizates lose their physico-mechanical properties completely. 2) In nitration, the formation of a structure is the leading process, whereas in oxidation this is done by destruction. 3) The vulcanizates investigated may be classed within the following series with respect to their acid Card 2/3

Investigation of Processes Developing in S/189/60/000/003/005/003 Vulcanized Products Under the Action of B016/B056 Nitric Acid

resistance: thermovulcanizate of SKS-30 > sulfur vulcanizate; thermovulcanizate SKB > X-ray vulcanizate SKS-30. The authors thank

V. M. Tatevskiy for his valuable advice in the interpretation of infrared spectra. There are 5 figures and 12 references: 5 Soviet, 3 US, and 1 US-Canadian.

ASSOCIATION: Moskovskiy universitet; Kafedra fizicheskoy khimii (Moscow University; Chair of Physical Chemistry)

Card 3/3

7(3), 24(7)

507/48-23-10-16/39

AUTHORS:

Postovskaya, A. F., Kuz'minskiy, A. S.

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TITLE:

Investigation of the Structural Variations of Vulcanizates

Under the Effect of Mineral Acids

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,

Vol 23, Nr 10, pp 1213-1216 (USSR)

ABSTRACT:

As in practice rubber parts frequently come into contact with mineral acids, an investigation of the influence exercised upon structure was of interest. The authors investigated the structural changes caused by nitric- and hydrochloric acid in thermo-vulcanizates of sodium butadiene rubbers (SKB) and in the thermo-vulcanizates of divinyl styrene rubber (SKS-30). The investigation was carried out by means of infrared spectroscopy within the range of 3800-600 cm<sup>-1</sup> by using a spectrometer of the type IKS-2. Action of the acids (25-50%) took place at 25 and 80° on vulcanizate films having a thickness of 30u. The results are shown by figures 1 and 2. The following absorption bands were found in SKB rubber: 680, 720, 910, 965, 992, 1300, 1360, 1437, 1457, 1640, 1825, 1856, 2926, 2979, 3019 and

Card 1/3

3080 cm<sup>-1</sup>. As a result of thermal vulcanization the following

SOV/48-23-10-16/39 Investigation of the Structural Variations of Vulcanizates Under the Effect of Mineral Acids

bands had been newly added: 1700-1710, 1240 and 3450 cm<sup>-1</sup>. They corresponded to the groups

C=0, -C-0-R, -00H and OH. Treatment with nitric acid led to the occurrence of the bands 759, 854, 1360, 1550 and 1672  $\rm cm^{-1}$ . This treatment led to the formation of oxygen-containing and nitrogen-containing groups in the vulcanizate. A spectroscopic analysis of the SKS-30-film treated with 25% hydro-chloric acid at 25° resulted in no structural changes and no addition of chlorine, even in the case of acid being active for 6 days. This agrees with data obtained by another method. Only after an action lasting 14 days a chlorination effect (occurrence of bands at 600, 650, 700-750 cm<sup>-1</sup>) was found. At higher temperatures the clorination process developed more rapidly. The authors finally thank V. M. Tatevskiy and M. A. Salimov for promoting this work and for their participation in it. There are 2 figures and 11 references, 1 of which is Soviet. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Scientific Research Institute of Rubber Industry). Komiteta Soveta Ministrov SSSR po khimii (of the Committee of the USSR

ASSOCIATION:

Card 2/3

SOV/48-23-10-16/39 Investigation of the Structural Variations of Vulcanizates Under the Effect of Mineral Acids

Council of Ministers for Chemistry)

Card 3/3

# POSTOVSKAYA, A.F.; KUZ'MINSKIY, A.S.

Investigation of structural changes in vulcanized rubber due to action of nitric acid [with summary in English]. Zhur.fiz.khim.
33 no.2:1417-451 F 59. (MIRA 12:4)

1. Nauchno-issledovatel skiy institut rezinovoy promyshlennosti
Ministerstva khimicheskoy promyshlennosti.
(Rubber-Testing) (Nitric acid)

sov/76-33-2-33/45

5(4) AUTHORS:

Postovskaya, A. F., Kuz'minskiy, A. S.

TITLE:

Studies on the Structural Changes of Vulcanised Rubber Caused by the Action of Nitric Acid (Issledovaniye strukturnykh izmeneniy vulkanizatov kauchuka pod deystviyem azotnoy

kisloty)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 2,

pp 447 - 451 (USSR)

ABSTRACT:

Despite the fact that many rubber products are exposed to the action of nitric acid (I) no systematic investigations have been carried out in regard to this action. In the present paper structural differences were studied in the following vulcanisates: I) a thermovulcanisate of sodium butadiene rubber (produced from SKB rubber); II) a sulfurcontaining sodium butadiene vulcanisate (from SKB); and III) a thermovulcanisate of a divinyl styrene rubber (from SKS-30). The investigations were carried out using an infra-red spectroscope. The spectra were recorded using an IKS-2 spectrograph at 3800-650 cm<sup>-1</sup> in the MGU in the laboratoriya molekulyarnoy spektroskopii prof. V. M. Tatev-

Card 1/2

Studies on the Structural Changes of Vulcanised Rubber Caused by the Action of Nitric Acid

SOV/76-33-2-33/45

skiy (Laboratory for Molecular Spectroscopy of Professor V. M. Tatevskiy), and were made by M. A. Salimov. Yulcanisate films 30µ thick were exposed to the action of 10-50% nitric acid at 25 and 80°. The adsorption spectra obtained show (Figs 1-3) that in the action of the nitric acid upon the SKB thermovulcanisate two processes occur: an oxidation in which oxygen-containing compounds are formed (peroxide, hydroxyl, carbonyl groups, etc) and a nitration yielding nitro compounds. The nature of the reaction products depends to a large extent upon the concentration and upon the temperature. Both processes are markedly accelerated by an increase in temperature. It was found that in a nitration a "structuration" preponderantly takes place (Table), while in oxidation a destruction occurs. Professor V. E. Tatevskiy and M. A. Salimov are thanked in closing. There are 3 figures and 8 references, 2 of which are Soviet. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti

ASSOCIATION:

MKhP(Scientific Research Institute of the Rubber Industry

of the MKhP)

SUBMITTED:

July 23, 1957

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	Boyak; I.I., and Ye. S. Solov'yev. Rotational Iso- morism and the Effect of Temperature on the Infrared Absorption Spectra of Some Parraffine			
	Rostovskays, A.F., I.A. Salimov, A.S. Kur'minskiy, and V.M. Tatevskiy. Variation in Structure of Sodium Butadiene Rubber in the Process of Tructure of Sodium	419		
	scopy Used to Study the Interaction of Rubber and Sulfur	423	1	
	Slovokhotova, N.A. Study of the Chemical Variations of Tetrafluorcethylene ("teflom") Under the In- fluence of Ionizing Radiation by Means of Infrared Spectroscopy	<b>428</b>	f	
	Mel'son, K.V., and I. Ya. Fodubnyy. Spectroscopic Study of the Microstructure of Some Diene Folymers Card 27/30	430 433		
	41/ 30			
				Marie Care II

sov/138-58-7-3/19

Postovskaya, A.F., Kuz'minskiy, A.S. and Mikhaylova, G.H.

Means of Determining the Permeability of Rubber and AUTHORS: Rubber Compositions to Acids (Metodika opredeleniya kislotopronitsayemosti kauchukov i rezin) TITIE:

Kauchuk i rezina, 1958, Nr 7, pp 11 - 13 (USSR) PERIODICAL:

The acid permeability of rubber is important in connection with components such as sealing rings, gaskets, ABSTRACT:

A method is described which gives consistent results and depends upon the measurement of the concentration of acid which has diffused through a diaphragm. The acid concentration is determined from its conductivity, using a Wheatstone bridge and current at frequencies in the range 1 000 to 4 000 cps, in order to prevent errors

through polarisation at the electrodes. The measuring vessel is shown in Figure 1. hand portion contains two platinised-tin electrodes,

connected to the bridge circuit shown in Figure 2. This portion is filled with distilled water and is divided from the left-hand part of the vessel by the membrane under The left-hand part is filled with an acid solution in an example given - with 27% nitric acid. Constants

for the vessel were determined by calibration with a calcium chloride solution of known specific resistance.

Card1/3

SOV/138-58-7-3/19 Means of Determining the Permeability of Rubber and Rubber Compositions to Acids

Calibration curves could then be constructed for specific conductivity against acid concentration, as in Figure 3, which plots both experimental findings and standard reference data, showing good agreement. The fact that the curve passes through a maximum is due to changes in the degree of dissociation of the acid at higher concentrations.

Determination of diffusion through three different membranes of SKS rubber is shown in Figure 4. After a short time, the rate of diffusion fills off, apparently because reaction products between membrane and acid block the surface. After some further time, diffusion again increases through the formation of cracks and change in the structure of the vulcanised membrane. There are 4 figures and 14 references, 12 of which are English and 2 Soviet.

Card2/3

#### CIA-RDP86-00513R001342630002-0 "APPROVED FOR RELEASE: 07/13/2001

SOV/138-58-7-3/19

Means of Determining the Permeability of Rubber and Rubber Compositions to Acids

ASSOCIATION:

Nauchno-issledovatel'skiv institut rezinovoy oromy-shleanosti

(Scientific-Research Institute of the Rubber Industry)

1. Rubber--Physical properties 2. Rubber--Test results

Card3/3

3. Nitric acid--Properties

CIA-RDP86-00513R001342630002-0" **APPROVED FOR RELEASE: 07/13/2001** 

POSTOVSKAYA, A.P.; SALINOV, M.A.; KUZ'MINSKIY, A.S.; TATEVSKIY, V.M.

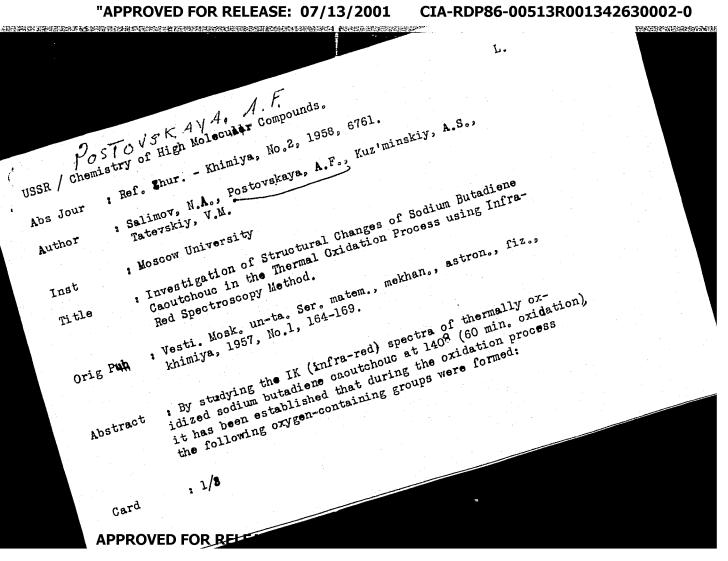
Structural changes of sodium-butadiene rubber in the process of light oxidation. Pis. shor. no.3:423-427 '57. (MIRA 11:8)

1. Eauchno-isaledovatel'skiy no.3:1423-427 if the process of this icheskiy fakul'tet Moskovskogo oxidana Lenina i oxidana Trudovogo Krasnogo Znameni gosudarstvennogo universiteta im. M.V. Lomonosova; (Rubber-Spectra) (Oxidation)

POSTOVSKAYA. A.F.: KUZ'MINSKIY, A.S.: MIKHAYLOVA, G.H.

Methed for determining the acid permeshility of crude and
vulcanized rubbers. Kauch. i rez. 17 no. 7:11-13 Jy '58.(MIRA 11:7)
vulcanized rubbers. Kauch. i rez. 17 no. 7:11-13 Jy '58.(MIRA 11:7)
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· USSR / Chemistry of High Molecular Compounds.

L.

Abs Jour : Ref. Zhur. - Khimiya, No.2, 1958, 6761.

Abstract

: hydroperoxides, alcohols, esters, ethers, aldehydes, ketones and acids. After 20 minutes of oxidation there appeared an absorption band of -OOH and -OH groups at 3380 om-1 the intensity of which increased with time of oxidation, while the maximum of absorption shifted to 3450 cm-1 (after 60 min.); the intensity of the absorption band of the carbonyl groups C = 0 at 1700 cm-1 increased, while in the range of 1000-1400 cm-1 there appeared absorption bands of the groups  $R_1$ -C( $\sharp$ 0)-OR at 1240 cm<sup>-1</sup> and of the  $R_1$ -O-R (ethers) at 1165 cm<sup>-1</sup>. It was established that the newly appearing absorption bands at 810 and 880 cm<sup>-1</sup> belong not to the peroxide, as it has been previously supposed, but to olefins having a structure 1,1,2-trialkylethylene  $R_1R_2C=CHR_3$ and 1,1 dialkylethylene R1R2C= CH2. In the course of oxidation, the intensity of the absorption bands of double bonds  $C = C 1,2 (910 \text{ and } 992 \text{ cm}^{-1}) 1,4 - \text{trand } (965 \text{ cm}^{-1})$ and 1,4 - cis (680 cm-1) was significantly decreased; an

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, USSR / Chemistry of High Molecular Compounds.

Abs Jour

: Ref. Zhur. - Khimiya, No.2, 1958, 6761.

Abstract

i analogous decrease of intensities was also observed for absorption bands of double bonds C = C at 1640 cm<sup>-1</sup> and for valence oscillation C-H of double bonds at 2979, 3019 and 3080 cm<sup>-1</sup>; and decrease of absorption bands of methylene groups -CH at 720, 2856 and 2929 cm<sup>-1</sup> showed that 0 atoms in addition to double bonding attach themselves also to C atoms located in a position to the double bonds. An increase in intensity of the absorption band at 3400 cm<sup>-1</sup> is linked to the formation of hydroxyl rather than hydroperoxide groups as it was confirmed by the results of the iodometric method.

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APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001342630002-0"

Distr: LE2c(1)/LE4.3

Study of the effect of phenyl-2-nanhthylamine on the light oridation of sodium butadiene public, by the method of infrared spectroscopy. M. A. Siljingy A. F. Philopylese Y. M. Intavelil, and A. S. Kuz minchil (Sci. Research inst. Rubber Ind., Moscow). Vetinik Moskov. Unic. 12.

Ser. Mat., Mekh., Attau., Fis., Khim. No. 3, 259-433(1957).

-Films of purified polybutadiene rubber 20-100 \(\rho\) thick contg. 0-3% phenyl-2-naphthylamine (1) were irradiated up to 15 hrs. in an O atm. at 70° with a quartz lamp and filter giving only light waves above \(\rho\) = 2900 A. Curves of their infrared absorption, O absorption, and unsaturation retine show that 1% I acts as a light sensitizer, causing more change then with no I; with 1% I more acids, ketones; and exters (but less hydroperoxide and -OH groups) are formed. Raising the I to 3% removes the light sensitization and gives protection against O.

Malcolm Anderson

H

POSTOVSKAYA, A.F.

USSR / Physics of High Molecular Substances.

D-9

Abs Jour : Ref Zhur - Fizika, No 4, 1957, No 9105

Author

: Postovskaya, A.F., Kuz'minskiy, A.S.

Title

: Behavior of Transverse Bonds, which Form a Three-Dimensional Grid of Vulcanized Rubber, when Exposed to Light.

Orig Pub

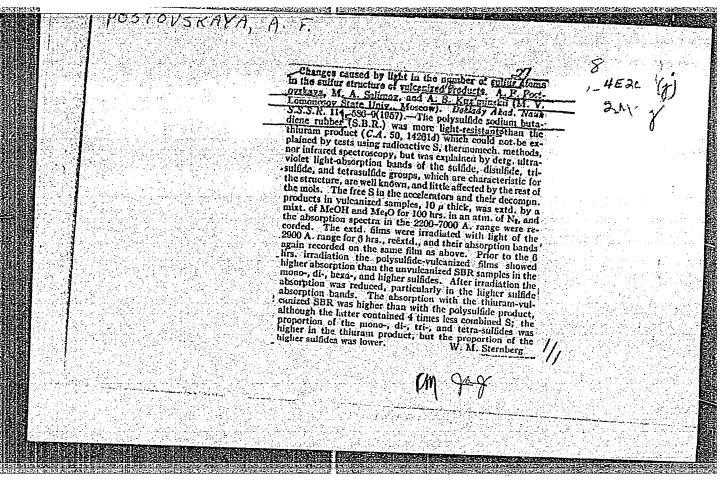
: Dokl. AN SSSR, 1956, 106, No 5, 866-869

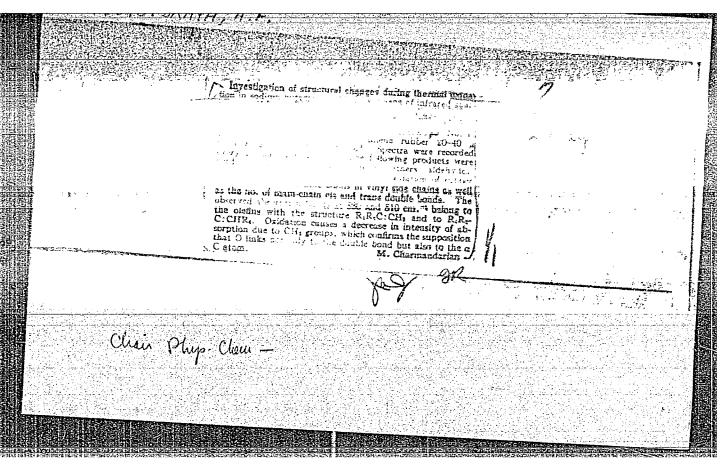
Abstract

: No abstract.

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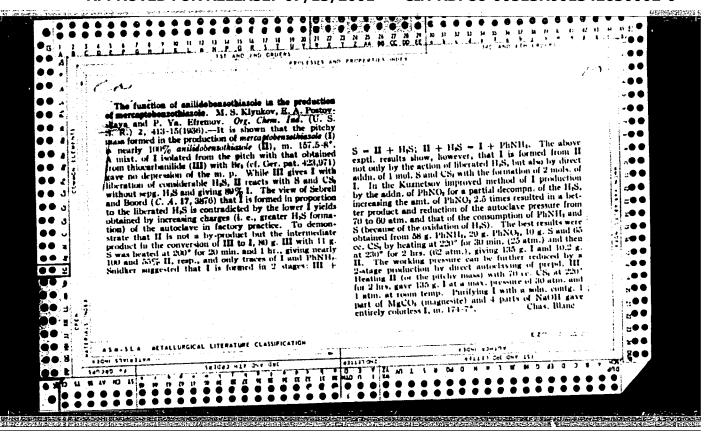


POSTOVSKAYA, A.F.; SALIHOV, M.A.; KUZ'MINSKIY, A.S.

Effect of light on the change of sulfur atom distribution in sulfur structures in vulcanized rubbers, Dokl. AN SSSR 114 no.3:586-589 My '57. (MIRA 10:8)

1. Hauchno-issledovateliskiy institut rezinovoy promyshlennosti i Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. Predstavleno akademikom P.A. Rebinderom.

(Sulfur) (Rubber)



FUDTOLSKI, JACEK.

POLAND/Chemical Technology, Chemical Products and Their Application, Part 3. - Food Industry.

H-28

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 34289.

Author : Jecek Postolski. : Not given. Title

: Statistical Determination of Butter Stability Under

Orig Pub: Przegl. mleczarski, 1957, 5, No 8-9, 33.

Abstract: It was established by the quality study of 1713 Samples of butter stored in a refrigerator at -190 that the butter made in summer (May, June, July) had preserved its taste better.

Card : 1/1

POSTOVOTTOY V APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001342630002-0"

Initiative of the Communist Youth League. Prof.-tekh. obr. 15 no.4:26 Ap 158. (Stalingrad--Gymnasiums) (MIRA 11:5)

VERESHCHAGINA, N.N.; POSTOVSKIY, I.Ya.

Gama-pyridyl hydrazine and its tuberculostatic effect. Trudy
Ural. politekh. inst. no.94:24-33 '60. (MIRA 15:6)

(Hydrazine) (Tuberculosis)

